

Title (en)

Toggle-lever clamping device for clamping work pieces with self-compensation

Title (de)

Kniehebelspannvorrichtung zum Spannen von Werkstücken mit Selbstkompensation

Title (fr)

Dispositif de serrage à genouillère pour le serrage de pièces à autocompensation

Publication

EP 1500470 A1 20050126 (EN)

Application

EP 04015136 A 20040628

Priority

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Abstract (en)

A toggle-lever clamping device for clamping work pieces; the device comprises a box-shaped body (10) which supports a clamping member (11) movable between a forward disengaging position and a backward position for clamping the work piece (P). The device also comprises control means (15) operatively connected to the clamping member (11) by means of an intermediate toggle-lever connecting link (18), and an articulated quadrilateral system (20, 23, 11B); the intermediate connecting link (18) is in the form of an axially yieldable flat spring comprising a plurality of side by side arranged elastically yieldable spring sections (18'), aligned according to its longitudinal axis. The articulated quadrilateral system (20, 23, 11B) and the intermediate connecting link (18) are constructed and disposed in such a way as to maintain an irreversible locking condition of the clamping member (11) to clamp work pieces (P), compensating differences in thickness of the work pieces (P). <IMAGE>

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